

<b>Interview Summary</b>	<b>Application No.</b> 09/930,442	<b>Applicant(s)</b> USHIWATA ET AL.	
	<b>Examiner</b> Omar Flores-Sánchez	<b>Art Unit</b> 3724	

All participants (applicant, applicant's representative, PTO personnel):

(1) Omar Flores-Sánchez. (3) \_\_\_\_\_.

(2) Jeffrey Schmitt. (4) \_\_\_\_\_.

Date of Interview: 10 March 2005.

Type: a) ☐ Telephonic b) ☐ Video Conference  
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☐ No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1, 33 and 34.

Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

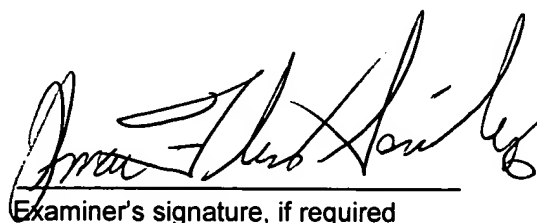
(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.



Allan N. Shoap  
Supervisory Patent Examiner  
Group 3700

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.



Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant discussed the difference between the prior art and the invention regarding the position of the laser generator, additional limitations to three independent claims 1, 34 and 42 were discussed (see the attachment) and appear to read over the grounds of rejection in the last office action. Applicant discussed that the light beam in Saito et al. is projected to the side of the blade, instead of within the width of the blade. Also, proposed, new claims A-D appear to overcome Saito et al. and Bosten et al. because the laser generator is located or is attached to the cutter blade portion, instead of the holder. However, these limitations will have to be further considered.

**Proposed Claim Amendments for Discussion during Interview**

1. (currently amended) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a ~~moving~~ rotating circular saw blade that cuts the workpiece, the cutter blade portion being supported on the holder so as to be partially movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position; and

a laser generator for emitting laser light, the laser generator being attached to one of the holder and the cutter blade portion in an orientation to direct at least a portion of the laser light onto a position to be cut on the workpiece so that laser light is directly beneath the ~~moving~~ rotating circular saw blade with respect to the cutter blade portion in the upper position.

33. (withdrawn, currently amended) The cutter as claimed in claim 1, wherein the holder ~~includes~~ comprises:

a slide shaft support portion; ~~the cutter further comprising:~~

at least one slide shaft extending through the slide shaft support portion and slidably movable in a frontward and a rearward direction with respect to the slide shaft support portion, the at least one slide shaft having a front end; and

a hinge holder fixed to the front end of the at least one slide shaft, the hinge holder having a front side, wherein the cutter blade portion is supported on the hinge holder.

34. (currently amended) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a circular saw blade that cuts the work piece, the cutter blade portion being supported on the holder so as to be pivotaly movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position, the circular saw blade having a rotation axis and a blade edge in a circumferential direction of the circular saw blade, the blade edge having a width in a direction of the rotation axis, said width bounded by two parallel planes; and

a laser generator for emitting laser light, the laser generator being attached to one of the holder and the cutter blade portion to direct at least a portion of the laser light onto a position to be cut on ~~[[a]]~~ the workpiece while satisfying the following conditions:

(1) ~~the at least a portion of the laser light travels within a space defined between said two planes;~~ and

(2) the at least a portion of the laser light travels between the blade edge and the base portion when the cutter blade portion is in the upper position.

42. (currently amended) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a circular saw blade that cuts the work piece, the cutter blade portion being supported on the holder so as to be pivotaly movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position, the circular saw blade having a ~~rotating~~ rotation axis and a blade edge in a circumferential direction of the blade, the blade edge having a width in a direction of the rotation axis; and

a laser generator for emitting laser light, the laser generator being attached to one of the holder and the cutter blade portion to direct at least a portion of the laser light onto a position to be cut on a the workpiece, ~~while the at least a portion of the laser generator being configured and arranged so that an entire width of the laser light on the workpiece travels is locatable within a space defined by a moving locus of the width of the blade edge as the cutter blade portion moves~~ from the upper position to the lower position.

A. (new) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a rotating circular saw blade that cuts the workpiece, the cutter blade portion being supported on the holder so as to be pivotally movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position; and

a laser generator for emitting laser light, the laser generator being attached to the holder in an orientation to direct at least a portion of the laser light onto a position to be cut on the workpiece so that laser light is directly beneath the rotating circular saw blade with respect to the cutter blade portion in the upper position.

B. (new) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a circular saw blade that cuts the work piece, the cutter blade portion being supported on the holder so as to be pivotally movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position, the circular saw blade having a rotation axis and a blade edge in a circumferential direction of the circular saw blade, the blade edge having a width in a direction of the rotation axis, said width bounded by two parallel planes; and

a laser generator for emitting laser light, the laser generator being attached to the holder to direct at least a portion of the laser light onto a position to be cut on the workpiece while satisfying the following conditions:

(1) the laser light travels within a space defined between said two planes; and

(2) the at least a portion of the laser light travels between the blade edge and the base portion when the cutter blade portion is in the upper position.

C. (new) A cutter comprising:

a base portion for supporting a workpiece;

a holder supported on the base portion;

a cutter blade portion adapted for supporting a circular saw blade that cuts the work piece, the cutter blade portion being supported on the holder so as to be pivotally movable between an upper position and a lower position, the cutter blade portion being closer to the base portion in the lower position than in the upper position, the circular saw blade having a rotation axis and a blade edge in a circumferential direction of the blade, the blade edge having a width in a direction of the rotation axis; and

a laser generator for emitting laser light, the laser generator being attached to the holder to direct at least a portion of the laser light onto a position to be cut on the workpiece, the laser generator being configured and arranged so that an entire width of the laser light is locatable within a space defined by a locus of the width of the blade edge as the cutter blade portion moves from the upper position to the lower position.

D. (new) The cutter as claimed in claim 1, wherein the holder is further pivotable in a second manner with respect to the base portion, so that an angle made by the circular saw blade and the base portion is changed when the holder is pivoted in the second manner with respect to the base portion.